

Municipal Facilities Operation & Management: **2.1.9 Stadium**

2.1.9.1 Introduction

The goal of this program component is to reduce the impacts of Qualcomm stadium events and operations on water quality in the San Diego River watershed. This program component is applicable to the City's Qualcomm Stadium management and employees, and any lessees or vendors who operate at Jack Murphy Field (Qualcomm Stadium and Jack Murphy Field are hereinafter referred to as "the stadium"). The City's program must meet the requirements of the San Diego Municipal Storm Water Permit, as described in Table 2.1.9-1.

Table 2.1.9-1. Permit Requirements – Stadium.

Section	Requirement (Summary)	Permit Section
2.1.9.2	Designate and implement minimum BMPs to protect water quality	F.3.a (1) F.3.a (4)
2.1.9.2	Inspect areas and activities annually	F.3.a.(7)
2.1.9.2	Implement and designate an Educational Program for all pertinent target communities	F.4.a F.4.b F.4.c
2.1.9.3	Develop a budget for storm water expenditures at the stadium for each fiscal year covered by the Municipal Permit	F.8
2.1.9.4	Document activities for Jurisdictional Urban Runoff Management Program Annual Report	I

This component's objectives are to:

- Develop and implement a storm water pollution prevention plan to designate, implement, and periodically update storm water practices at the Stadium to control the introduction of pollutants to storm water;
- Identify a phased implementation schedule and associated estimated costs needed to implement the Stadium component through the five-year life of the Municipal Permit;
- Document storm water pollution prevention activities conducted at the stadium (change as needed), which will then be submitted annually to the Storm Water Pollution Prevention Program along with an annual assessment form;
- Develop and implement storm water best management practices employee training;
- Develop and implement storm water best management practices public education program for workers and visitors at the stadium;

- Conduct annual inspections.

2.1.9.2 Activities

The Stadium management will conduct the following activities, which are further described below.

- Designate a storm water coordinator for the stadium;
- Develop and implement a Storm Water Pollution Prevention Plan (SWPPP);
- Perform inspections and reporting;
- Develop and implement an education program for pertinent audiences at the stadium.

Designate Stadium Storm Water Coordinator

The Stadium General Manager will designate the Safety Representative as the Stadium coordinator to the Storm Water Program before February 21, 2002. The Storm Water Program shall interact with the coordinator to provide the latest Municipal Permit information and to request annual compliance reports from the Stadium management. The coordinator shall insure an effective implementation of the activities, procedures and education and training of the Stadiums component of the Urban Runoff Management Program. The Stadium management shall provide the names of new representatives whenever the designated coordinator is replaced.

Prepare and implement a Storm Water Pollution Prevention Plan

The stadium is adjacent to the San Diego River and portions of the parking lot are within the 100-year floodplain. The parking lot is inundated with water during periods of heavy rainfall. Storm water best management practices (SWPs) are currently being implemented at the stadium. The Stadium management will develop a Storm Water Pollution Prevention Plan (SWPPP) that will summarize these activities, in addition to future activities that will be implemented, and show them spatially on a map of the site.

The SWPPP shall contain the following information:

Planning and Organization

The Stadium General Manager will designate the Assistant Stadium Manager, Turf Manager and Safety Representative as team members who will develop and implement the Storm Water Pollution Prevention Program of the Stadium before October 30, 2002.

Site Map

A site map, which will display the following features, will be prepared and completed by March 31, 2003.

- An outline of the entire property, the stadium, and any other permanent structures
- Drainage areas on the property and direction of flow
- Areas of soil erosion
- Nearby water bodies (show the San Diego River)
- Location of storm water conveyance systems (ditches, inlets, storm drains, etc.)
- Location of existing permanent storm water controls (oil/ water separators, sumps, etc.). Sand bags are considered temporary.
- Location of “impervious” areas- paved areas, buildings, covered areas
- Locations where materials are directly exposed to storm water or urban runoff
- Locations where toxic or hazardous materials have spilled in the past
- Location of building and activity areas (e.g. garages, waste container area, wash racks, hazardous material storage areas, food container wash areas, port-a-potties, etc.)

List of Significant Materials

A list of materials stored and handled at the Stadium, including the location and typical quantities, will be developed by June 30, 2002.

Description of Potential Pollutant Sources

- A list of events held each year including a narrative description of the activities of each type of event and an assessment of the potential pollutant sources that could be discharged in storm water discharges from each activity.
- A list of non-storm water discharges (such as hosing of sidewalks, dumping of ice, dumping cooking, liquids, beverages, grease, etc) including the source, quantity, frequency, and characteristics of the discharge and drainage area.
- List of materials that have spilled or leaked in significant quantities since April 17, 1994. (If any).

Best Management Practices

- The stadium will develop a list of Best Management practices (BMPs) that are currently implemented and those that will be implemented on or before December 31, 2002 for all potential pollutant sources that could be discharged in

storm water discharges at the Stadium from each activity listed in the potential pollutant sources above.

- The Stadium will develop and implement a parking facilities management plan by June 30, 2003. The plan shall include effective measures to remove debris from the Stadium parking facilities regularly and after events to reduce the amount of materials that are potentially exposed to storm water.
- The Stadium will develop a storm water Management plan for tailgate events which the organizer and the caterer must implement to prevent materials such as grease, coal and other trash from being dumped on the ground by October 31, 2002.
- The Stadium management will conduct annual inspection of Stadium areas and activities in preparation for the Jurisdictional Urban Runoff Management Program annual report. Routine inspections are also discussed below.

The SWPPP will be kept on site and made available upon request of a representative of the City of San Diego Storm Water Pollution Prevention Program.

Routine Inspection and Cleaning, Review of Activities

The following self-inspections processes will be performed at Operations Centers:

- Facilities will be inspected annually and cleaned as needed.
- Maintenance activities will be reviewed annually to verify that appropriate storm water BMPs and practices are being utilized.
- Report modifications and corrective actions identified during self-inspection to the Storm Water Program annually as part of the Program Assessment.

Twenty-Four Hour Non-Storm Water Discharge Reporting

Certain non-storm water discharges, because of their nature or magnitude, require timely reporting to the Regional Board. A report will also be forwarded to the Storm Water Program for record keeping purposes. Non-storm water discharges that pose a significant threat to water quality or human health, will be evaluated by City staff against the "24-Hour Non-Storm Water Discharge Reporting Checklist". A significant threat to water quality or human health is determined on a case-by-case basis and will be dependent on the type of pollutant, the degree of the violation (i.e. the amount of pollutant discharged into the municipal storm drain system), the proximity to receiving water bodies, the potential for exposure to the public, and the potential for environmental damage. Examples of discharges that will be reported include sewage spills and non-storm water discharges, such as a significant sediment load into Los Penasquitos Lagoon.

Where staff determines that discharges pose a significant threat to water quality or human health, the Storm Water Program or responsible City department will notify the Regional Board orally and by facsimile within 24 hours of the discharge event. Additionally, a written report of the event and follow up actions will be sent to the designated Regional Board contact for the Municipal Storm Water Permit, if needed, within 5 working days of the day the event was identified. A standard reporting form will be created by the Storm Water Program to be used by all City departments to facilitate consistency and maintain clear communication with the Regional Board. The report will contain the following information:

- Description of the event and it's cause;
- Duration of the event;
- Time the event is expected to continue if it has not been corrected;
- Steps taken to correct the non-storm water discharge event.

Education & Training

1. Internal/Municipal Education:

The City of San Diego plans to conduct two levels of education and training for staff: General and Activity Specific. All staff will receive a basic introduction to the issue via a "General Storm Water" workshop created and funded by the General Services Storm Water Pollution Prevention Program. Additionally, those departments or work groups that perform work activities specifically identified in, and affected by, the Permit will create and execute and fund Activity Specific training sessions to introduce new work processes, functions and behaviors that incorporate the Best Management Practices (BMPs) necessary for staff to prevent illegal discharges into the City's storm water collection and conveyance system and recreational waters. Additionally, the Departments will fund the External Education and Outreach elements in this plan. All education and outreach covered by the permit shall contain the phrase, "Another City of San Diego Think Blue Program protecting our beaches, bays and watersheds."

A) General Storm Water Training Funded By the Storm Water Program:

The General Storm Water workshops, while created and funded by the Storm Water Program, are primarily being given by trainers to the staff of their respective departments. And, items 2,3,4,5 and 6, below, are the educational materials created for the workshops. A "Train the Trainer " workshop was also created and given by the Storm Water Program (Item 7) to familiarize the trainers on the material and subject matter prior to rolling out the General Training workshop to their department staff.

Table 2.1.9-2. Storm Water Program General Training.

ITEM	AVAILABLE
1. Clean Water Leader/3-Cs BMP Reference Card	July 2001
2. General Storm Water Training Video	October 2001 To be completed by June 2002
3. City Employee Brochure	October 2001
4. Stop Pollution Pad	October 2001
5. Employee Knowledge & Behavior Survey. To be given before and after each General Storm Water Workshop by department trainers	October 2001
6. Frequently Asked Questions for department Trainers	October 2001
7. Train the Trainer Sessions. Training of department trainers on content and materials for the General Storm Water Workshops	September 10-14, 2001
8. Storm Water Newsletter	July/August 2002*

* Note that Items 1 through 7 occurred in FY 2002 for city-wide distribution, and that Item 8 is slated for Fiscal Year 2003 and reflects an estimated available date.

B) Activity Specific Storm Water Best Management Practices Training(s):

The Stadium management will work closely with the Storm Water Program to create a complete training module for staff and to establish a system to update and improve the information and training materials available to staff. The Stadium will develop and implement Best Management Practices Bilingual training for all their employees through tailgate meetings and actual demonstration of the BMPs for specific activities that have potential pollutant sources that could be discharged in storm water discharges at the Stadium. A list of specific activities of each event with the corresponding BMPs to prevent or reduce storm water pollution will be developed by February 2003, training for all Stadium employees will be completed by March 31, 2004.

Table 2.1.9-3. Department Training Activities

ITEM	AVAILABLE*
1. Identify needs, create materials, and execute Activity Specific trainings/workshops and provide them in bilingual format(s) as dictated by staff needs.	February 2003
2. Create Storm Water BMP Reference Binders for Staff	February 2003

ITEM	AVAILABLE*
3. Annually update BMP Reference Binders and provide refresher trainings	June 2004
4. Storm Water BMP Bulletin Boards in key employee area(s)	February 2003
5. Create and post in key employee areas Activity Specific Storm Water BMP posters	February 2003
6. Create and post Storm Water pollution prevention signage in areas of the Stadium where vendor and staff activities pose a risk of illegal discharge(s).	January 2003
7. Train new employees on Storm Water activities. General and Activity Specific to be conducted by supervisor	New Employee Orientation

* Note the completion dates listed are estimated. Actual completion dates may vary depending upon other program factors.

2. External Education:

The City of San Diego and Stadium management has good working relationships with its vendors and professional sport franchises that contractually provide a wide variety of commercial, industrial and entertainment services at the stadium and its related properties. As a result, the City anticipates a cooperative effort will occur with the vendors and franchises to implement a comprehensive storm water management program. It's the City's intent to ensure that all vendors have been properly educated and are given industry specific BMPs and outside resources that will help them comply with the City's Municipal Code and the new Discharge Permit.

The Stadium will develop and provide educational materials to their tenants, professional sport franchises with existing contract with the City of San Diego, promoters of events that will be held at the Stadium, developers or contractors with projects at the Stadium, and the general public, as described in Table 2.1.9-4.

Table 2.1.9-4. Department External Education Activities

ITEM	AVAILABLE *
1. Facility visitor information provided and posted in various locations on the site about the proper disposal of liquids, litter and other polluting discharges their activities may generate that will migrate via the street(s), parking lots, patio area(s), to the storm drain system and into our local recreational waters. Users will be notified of the potential for fines.	September 2002
2. Modify existing event and group party brochures and permit materials to inform them of storm water pollution prevention regulations and the corresponding acceptable activities and behaviors at the stadium. Groups and event parties will be notified of the potential for fines for failing to comply with the regulations.	March 2002

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ITEM	AVAILABLE *
3. During Stadium Events, broadcast on Stadium Big Screen and over the Public Address system Storm Water educational messages and television commercials developed by General Services.	November 2001
4. Develop Stadium specific informational commercials on how stadium visitors can help you keep the San Diego River free of impacts from today's/tonight's event. Topics should include: Pick-up litter; properly dispose of cigarette butts; use the stadium restrooms and port-a-potties; clean up after tailgate parties by throwing liquids in the nearest trash can instead of pouring them on the ground; Use alternative transportation (i.e. the trolley or carpool especially if your car is leaking automotive fluids).	November 2002
5. Send informational memo to contracted vendors and franchises about the Stadiums policies regarding Storm Water Pollution Prevention and the City's expectations of the contractors and their staff. Include brochure.	January 2002
6. Provide access to the City's General Storm Water Training video to all contracted vendors and franchises to show their employees as one element of their employee Storm Water BMP training.	October 2001
7. Provide vendor and franchise sport access to Stadium staff Activity Specific BMP informational posters.	February 2003
8. Create and post Storm Water pollution prevention signage in areas of the Stadium where vendor activities pose a risk of illegal discharge(s).	February 2002
9. All publicly funded education/outreach covered by the permit shall contain the phrase, "Another City of San Diego Think Blue program protecting our beaches, bays and watersheds".	November 2001
10. All new development shall use Storm Drain Concrete stamps OR Thermoplastic reflective pavement markings or stencils that are bilingual (English and Spanish), and read "No Dumping! Drains to Ocean (Bay)."	January 2002

** Note the completion dates listed are estimated. Actual completion dates may vary depending upon other program factors.*

2.1.9.3 Phasing

Year 1 (July 1, 2001 – June 30, 2002):

- Designate the Assistant Stadium Manager, Turf Manager and Safety Representative to develop and implement the Storm Water Pollution Prevention Program of the Stadium by November 30, 2001.
- Designate the Safety Representative as the Stadium's coordinator to the Storm Water Program by November 30, 2001.
- Develop/implement the internal and external education and training program of the Stadium's component of the Storm Water Pollution Prevention Program.
 - Train all Stadium employees with the City's General Storm Water workshops by June 30, 2002. Spanish speaking employees will have separate training conducted with translator or Spanish video.
 - Provide general Storm Water training video to tenants, Padres, Charges and Aztecs March 31, 2002.
- Initiate development of the Stadium's Storm Water Pollution Prevention Plan.
- Continue existing activities that are considered storm water best management practices:
 - Sweep parking lot and streets after each event.
 - Sweep and pick-up trash in seating areas and aisle ways/sidewalks before washing down.
 - Provide adequate coal, trash and recycling containers in the parking lot.
 - Provide recycling bins in the parking lot and near the gates.
 - Provide portable toilets in the parking lot.
 - Keep hazardous materials and hazardous wastes containers inside respective storage areas.

Year 2 (July 1, 2002 – June 30, 2003):

- Implement Year 2 storm water practices
 - Continue implementing year 1 Storm water Practices.
 - Purchase wash rack to provide washing facility for Stadium equipment.
 - Require event producers, (such as supercross, monster truck show, etc) through contract to provide erosion control measures for stock piled earth in the parking lot.
- Prepare projected storm water budget
- Education activities:
 - Supervisors use Stadium's best management practices in actual demonstrations during tailgate meetings.
 - Broadcast and show during Stadium events storm water educational messages and television commercials developed by general services over the public address system and the Jumbotron respectively.

- Send informational memo to contracted vendors and franchises about the Stadiums policies regarding Storm Water Pollution Prevention and the City's expectations of the contractors and their staff.
- Prepare & submit annual assessment form
- Complete and implement SWPPP

Year 3 (July 1, 2003 – June 30, 2004):

- Implement Year 3 storm water practices identified in SWPPP
 - Require tailgate events organizer and/or caterer through modified permit to implement a Stadium Storm Water Management plan that would prevent materials such as grease, coal and other trash from being dumped on the ground and become a potential storm water pollutant.
- Education activities
 - Supervisors continue to use Stadium's best management practice in actual demonstrations during tailgate meetings.
 - Modify existing permit for party/tailgate organizer and/or caterers to inform them of the storm waters pollution prevention regulations and the corresponding acceptable activities and behaviors at the Stadium including the potential fines for failing to comply with the regulation.
 - Post in various locations for the general public to see informational materials regarding the proper disposal of liquids, litter and other polluting discharges their activities may generate that will migrate via the streets, parking lots, patios, to the storm drain system and into our local recreational waters.
- Prepare projected storm water budget.
- Prepare & submit annual assessment form
- Assess & revise SWPPP as necessary

Year 4 (July 1, 2004 – June 30, 2005):

- Implement Year 4 storm water practices identified in SWPPP
 - implement storm drain concrete stamps or thermoplastic reflective pavement markings or stencils (English and Spanish), and read "No Dumping! Drains to Ocean (Bay)" for all new development.
- Education activities
 - Show specific informational commercial videos in jumbotron on how stadium patrons can help the City keep the San Diego River free of impacts from the current events. Topics will include: pick-up litter; properly dispose cigarette butts; use the Stadium restrooms and port-a-potties; clean-up after tailgate parties by throwing liquids in the nearest trash can instead of pouring them on the ground; use alternative transportation (i.e the trolley or carpool especially if your transportation is leaking automotive fluids.

- Supervisors continue to use Stadium's best management practices in actual demonstrations during tailgate meetings.
- Prepare & submit annual assessment form
- Prepare projected storm water budget
- Assess & revise SWPPP as necessary

Year 5 (July 1, 2005 – June 30, 2006):

- Implement Year 4 storm water practices identified in SWPPP:
 - Reduce frequency of using seating areas and sidewalks when Padres move to downtown ballpark.
 - Reduce amount of potential storm water pollutants such as fertilizers, herbicides and pesticides when Padres move to downtown ballpark.
- Education activities:
 - Supervisors continue to use Stadium's best management practices in actual demonstrations during tailgate meeting.
 - Continue showing specific informational commercial videos in jumbotron during events at the Stadium.
- Prepare & submit annual assessment form
- Assess & revise SWPPP as necessary

Actual implementation of the activities listed above is dependent upon identification of funding in future yearly budgets and City Council approval.

2.1.9.4 Annual Assessment

The following form is representative of the quantitative and qualitative measures that will be tracked by the Storm Water Program regarding the Stadium component in order to prepare the Jurisdictional Urban Runoff Management Program annual assessment.

These assessment factors and questions are presented for information only; some questions may be modified prior to each annual assessment period, and not all of the factors or questions below may apply to each component's responsible department(s).

Prior to each fiscal year, a tailored Annual Assessment Form will be distributed to responsible departments, and will include an Excel spreadsheet containing direct and indirect quantitative and qualitative measures similar to the example below. The Storm Water Program will provide a blank copy of the Annual Assessment Form and additional guidance to department management prior to the beginning of each fiscal year. Submission of this report will require department director approval.

Program Assessment Form - Municipal Facilities Operations and Management - Stadium

QUANTITATIVE ASSESSMENT:

Activity	Quantity	Units	Comments
Number of high priority municipal facilities		#	
Number of high priority municipal facilities targeted for inspection		#	Due to calendar-year vs. fiscal year, staffing, budget, etc., as well as Permit Section F.3.b.(6)(d), the number of sites targeted for inspection may be less than the actual number of sites.
Number of high priority municipal facilities inspected		#	Number of sites (not the number of inspections, which may or may not be the same).
Number of medium and low priority municipal facilities inspected		#	See above.
Quantity of material removed from MS4		tons	direct measure; report in tons.
Quantity of debris removed that could have enter MS4 (i.e. street sweeping, litter removal)		tons	direct measure; report in tons.

QUALITATIVE ASSESSMENT:

1. Describe the major accomplishments of this component over the past year.

2. Summarize the educational and outreach activities conducted for this component over the past year to educate staff on water quality principles.

3. Summarize new activities or improvements to be implemented next year as a result of your self-assessment.

4. Other comments.

FINANCIAL ASSESSMENT:

Estimated annual storm water expenditures:

Personnel Expenditures: _____

Non-personnel Expenditures: _____